

F. A. PROJECT NO.

NOTES

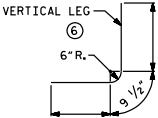
ASSUMED LIVE LOAD -----HS20-44 OR ALTERNATE LOADING.  
DESIGN FILL-----  
FOR OTHER DESIGN DATA AND NOTES SEE STANDARD NOTE SHEET.  
3"Ø WEEP HOLES INDICATED TO BE IN ACCORDANCE WITH THE SPECIFICATIONS.  
CONCRETE IN CULVERTS TO BE POURED IN THE FOLLOWING ORDER:  
1.WING FOOTINGS AND FLOOR SLAB INCLUDING 4"  
OF ALL VERTICAL WALLS.  
2.THE REMAINING PORTIONS OF THE WALLS AND WINGS FULL  
HEIGHT FOLLOWED BY ROOF SLAB AND HEADWALLS.  
THE RESIDENT ENGINEER SHALL CHECK THE LENGTH OF CULVERT BEFORE  
STAKING IT OUT TO MAKE CERTAIN THAT IT WILL PROPERLY TAKE CARE  
OF THE FILL.  
THIS BARREL STANDARD TO BE USED ONLY ON CULVERT ON 90° SKEW AND TO  
BE USED WITH STANDARD WING SHEET WITH THE SAME SKEW AND VERTICAL  
CLEARANCE.  
DIMENSIONS FOR WING LAYOUT AS WELL AS ADDITIONAL REINFORCING STEEL  
EMBEDDED IN BARREL ARE SHOWN ON WING SHEET.  
TRANSVERSE CONSTRUCTION JOINTS SHALL BE USED IN THE BARREL, SPACED  
TO LIMIT THE POURS TO A MAXIMUM OF 70 FT.LOCATION OF JOINTS SHALL  
BE SUBJECT TO APPROVAL OF THE ENGINEER.  
STEEL IN THE BOTTOM SLAB MAY BE SPLICED AT THE PERMITTED CONSTRUCTION  
JOINT AT THE CONTRACTOR'S OPTION,EXTRA WEIGHT OF STEEL DUE TO THE SPLICES  
SHALL BE PAID FOR BY THE CONTRACTOR.  
AT THE CONTRACTOR'S OPTION,HE MAY SPLICE THE VERTICAL REINFORCING STEEL  
IN THE INTERIOR FACE OF EXTERIOR WALL AND BOTH FACES OF INTERIOR WALLS  
ABOVE LOWER WALL CONSTRUCTION JOINT.THE SPLICE LENGTH SHALL BE AS PROVIDED  
IN THE SPLICE LENGTH CHART SHOWN ON THE PLANS,EXTRA WEIGHT OF STEEL DUE  
TO THE SPLICES SHALL BE PAID FOR BY THE CONTRACTOR.  
AT THE CONTRACTOR'S OPTION HE MAY SUBMIT, TO THE ENGINEER FOR APPROVAL,  
DESIGN AND DETAIL DRAWINGS FOR A PRECAST REINFORCED CONCRETE BOX CULVERT  
IN LIEU OF THE CAST-IN-PLACE CULVERT SHOWN ON THE PLANS,THE DESIGN SHALL  
PROVIDE THE SAME SIZE AND NUMBER OF BARRELS AS USED ON THE CAST-IN-PLACE  
DESIGN,FOR OPTIONAL PRECAST REINFORCED CONCRETE BOX CULVERT,SEE SPECIAL  
PROVISIONS.

LOCATION SKETCH

TOTAL STRUCTURE QUANTITIES	
CLASS A CONCRETE	
BARREL @ _____ CY/FT	_____ C.Y.
WING ETC. _____	_____ C.Y.
TOTAL _____	_____ C.Y.
REINFORCING STEEL	
BARREL _____	_____ LBS.
WINGS ETC. _____	_____ LBS.
TOTAL _____	_____ LBS.

PROJECT NO. \_\_\_\_\_  
\_\_\_\_\_ COUNTY  
STATION: \_\_\_\_\_  
SHEET 1 OF 2

PROFILE ALONG C CULVERT



BAR TYPE

BAR DIMENSIONS ARE OUT TO OUT

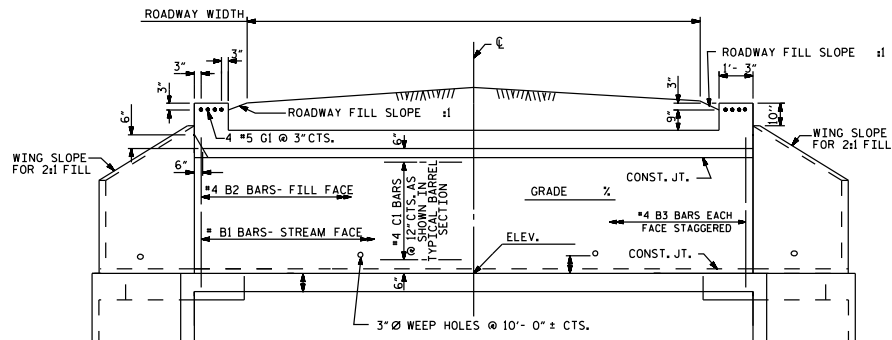
STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
RALEIGH  
BARREL STANDARD  
QUADRUPLER FT. X FT.  
CONCRETE BOX CULVERT  
90° SKEW

JULY 1990				SHEET NO.	
NO.		REVISIONS		DATE	
BY		DATE		BY	
1		3			
2		4			
				TOTAL SHEETS	

STD. NO. CB14A

ASSEMBLED BY : _____	DATE : _____	SPECIAL
CHECKED BY : _____	DATE : _____	
DRAWN BY : _____	DATE : _____	STANDARD
CHECKED BY : _____	DATE : _____	

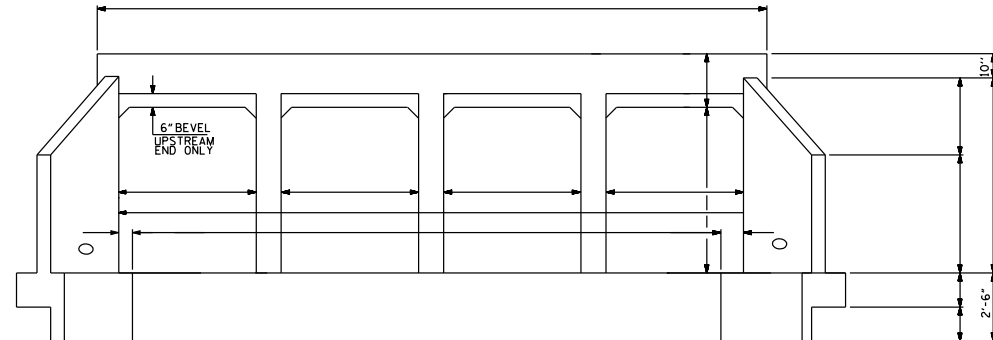
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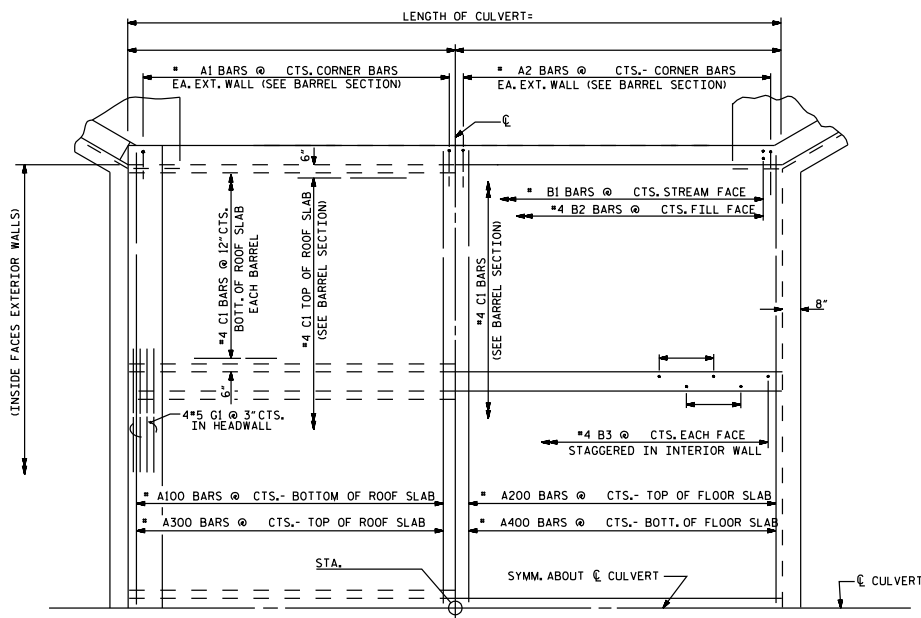
EXTERIOR WALL

INTERIOR WALL

CULVERT SECTION NORMAL TO ROADWAY

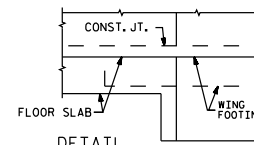
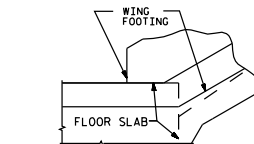


END ELEVATION NORMAL TO SKEW



PART PLAN - ROOF SLAB

PART PLAN - FLOOR SLAB



DETAIL

CONNECTION OF WING FOOTING  
AND FLOOR SLAB WHEN SLAB  
IS THICKER THAN FOOTING

PROJECT NO. \_\_\_\_\_

\_\_\_\_\_ COUNTY

STATION: \_\_\_\_\_

SHEET 2 OF 2

STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
RALEIGH  
BARREL STANDARD  
QUADRUPLE FT. X FT.  
CONCRETE BOX CULVERT  
90° SKEW

REVISIONS						SHEET NO.
NO.	BY	DATE	NO.	BY	DATE	
1			3			TOTAL SHEETS
2			4			

STD. NO. CB14

REVISED 11-9-99 BY M.M. CHECKED BY R.W.W.  
REDAWN B.E.P.W.N. 10/1/99 CHECKED BY D.A.G.

ASSEMBLED BY : _____	DATE : _____	SPECIAL
CHECKED BY : _____	DATE : _____	
DRAWN BY : RALPH D. UNDERWOOD	DATE : MAY, 1971	STANDARD
CHECKED BY : JOEL A. JOHNSON	DATE : JUNE, 1971	